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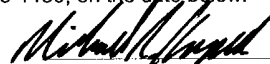
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AUSTIN, TEXAS 78701-3271
WWW.FULBRIGHT.COM

MKRAWZSENEK@FULBRIGHT.COM
DIRECT DIAL: (512) 536-3020

TELEPHONE: (512) 474-5201
FACSIMILE: (512) 536-4598

April 2, 2004

CERTIFICATE OF MAILING 37 C.F.R. 1.8	
I certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Attn.: Zeman, Robert A., Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:	
April 2, 2004	
Date	Michael R. Krawzsenek

Attn.: Zeman, Robert A.
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 09/941,296 entitled "FORMULATION OF ADENOVIRUS FOR GENE THERAPY" – Zheng Wu and Shuyan Zhang*
Our reference: INRP:067USD1

Sir:

Enclosed for filing in the above-referenced patent application is a Supplemental Information Disclosure Statement, Form PTO-1449, and references A5-A14, B13-B23, C30-C71 and C73-C125.

No fees are believed to be due in connection with the filing of this Supplemental Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/INRP:067USD1.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,



Michael R. Krawzsenek
Reg. No. 51,898

MRK/kmv
Encl.: as noted



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Zheng Wu

Shuyuan Zhang

Serial No.: 09/941,296

Filed: August 28, 2001

For: FORMULATION OF ADENOVIRUS FOR
GENE THERAPY

Group Art Unit: 1645

Examiner: Zeman, Robert A.

Atty. Dkt. No.: INRP:067USD1

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Michael R. Krawzsenek
Michael R. Krawzsenek

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Attn.: Zeman, Robert A.

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner. We were unable to obtain a copy of reference C72, Kotani, "Serum-free production of adenoviral vectors for gene therapy," Williamsburg BioProcessing Conference, Nov. 18-21, 1996. However, this reference remains on the Form PTO-1449 out of an abundance of caution.

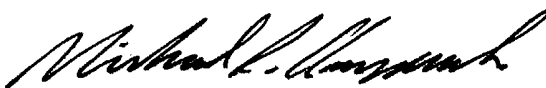
In accordance with 37 C.F.R. §§ 1.97(g), (h), this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Supplemental Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Supplemental Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/INRP:067USD1.

This application is a divisional application of Serial No. 09/441,410, filed November 16, 1999 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) only copies of those documents not previously cited and submitted to the Patent and Trademark Office in prior application Serial No. 09/441,410 are enclosed for the convenience of the Examiner.

Applicants respectfully request that the listed documents be made of record in the present case.

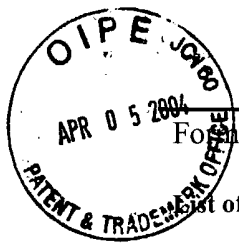
Respectfully submitted,



Michael R. Krawzsenek
Reg. No. 51,898
Attorney for Applicants

FULBRIGHT & JAWORSKI L.L.P.
600 Congress Avenue, Suite 2400
Austin, Texas 78701
(512) 474-5201

Date: April 2, 2004



Foreign PTO-1449 (modified)

Office of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.
INRP:067USD1Serial No.
09/441,410Applicant
Zheng Wu
Shuyuan ZhangFiling Date:
August 28, 2001Group:
1645U.S. Patent Documents
See Page 1Foreign Patent Documents
See Page 1Other Art
See Page 1

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A5	4,352,883	10/05/82	Lim	435	178	3/28/79
	A6	4,725,547	2/16/88	Sakamoto <i>et al.</i>	435	239	8/9/85
	A7	5,607,851	3/4/97	Pellegrini <i>et al.</i>	435	236	7/18/94
	A8	5,744,304	4/28/98	Munford	435	6	5/30/95
	A9	5,837,520	11/17/98	Shabram <i>et al.</i>	435	239	3/07/95
	A10	6,143,290	11/07/00	Zhang <i>et al.</i>	424	93.2	4/07/94
	A11	6,194,210	2/27/01	Leu and Seifert	435	403	4/17/96
	A12	6,485,958	11/26/02	Blanche <i>et al.</i>	435	239	12/16/98
	A13	6,537,793	3/25/03	Blanche <i>et al.</i>	435	239	6/14/01
	A14	6,586,226	7/1/03	Carrion <i>et al.</i>	435	239	11/30/01

Foreign Patent Documents

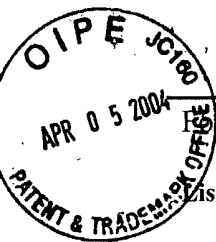
Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B13	4-9338	1/14/92	Japan			ABSTRACT
	B14	EP 0475623	3/18/92	Europe			
	B15	WO 93/25224	12/23/93	PCT			
	B16	WO 94/06910	3/31/94	PCT			
	B17	WO 95/25789	9/28/95	PCT			
	B18	WO 96/27677	09/12/96	PCT			
	B19	WO 97/04803	2/13/97	PCT			
	B20	WO 97/08298	3/06/97	PCT			
	B21	WO 98/00524	1/08/98	PCT			
	B22	WO 98/26048	6/18/98	PCT			

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Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

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(Use several sheets if necessary)

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Shuyuan ZhangFiling Date:
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*See Page 1*Other Art
See Page 1

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B23	WO 99/54441	10/28/99	PCT			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C30	Aboud <i>et al.</i> , "Rapid purification of extracellular and intracellular moloney murine leukemia virus," <i>Arch. Virol.</i> , 71:185-195, 1982.
	C31	Baichwal and Sugden, <i>In: Kucherlapati R, ed. Gene transfer. New York: Plenum Press, 117-148, 1986.</i>
	C32	Benvenisty and Reshef, "Direct introduction of genes into rats and expression of the genes," <i>Proc. Nat'l Acad. Sci. USA</i> , 83:9551-9555, 1986.
	C33	Berg <i>et al.</i> , "High-level expression of secreted proteins from cells adapted to serum-free suspension culture," <i>BioTechniques</i> , 14(6):972-978, 1993.
	C34	Bett, "An efficient and flexible system for construction of adenovirus vectors with insertions or deletions in early regions 1 and 3," <i>Proc. Natl. Acad. Sci. USA</i> , 91(19):8802-8806, 1994.
	C35	Bussemakers <i>et al.</i> , "Decreased expression of E-cadherin in the progression of rat prostatic cancer," <i>Cancer Res.</i> , 52:2916-2922, 1992.
	C36	Cartwright, "Fermenter design for animal cell cultures," <i>Animal Cells as Bioreactors</i> , Cambridge University Press, 58-63, 1994.
	C37	Casey <i>et al.</i> , "Growth suppression of human breast cancer cells by the introduction of a wild-type p53 gene," <i>Oncogene</i> , 6:1791-1797, 1991.
	C38	Chen and Okayama, "High-efficiency transfection of mammalian cells by plasmid DNA," <i>Mol. Cell Biol.</i> , 7:2745-2752, 1987.
	C39	Cheung <i>et al.</i> , "Cell-CAM105 isoforms with different adhesion functions are coexpressed in adult rat tissues and during liver development", <i>J. Biol. Chem.</i> , 268:6139-6146, 1993.
	C40	Cheung <i>et al.</i> , "The cytoplasmic domain of C-CAM is required for C-CAM-mediated adhesion function: studies of a C-CAM transcript containing an unspliced intron", <i>Biochem. J.</i> , 295:427-435, 1993.

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Form PTO-1449 (modified)		Atty. Docket No. INRP:067USD1	Serial No. 09/441,410
Office of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Zheng Wu Shuyuan Zhang	
		Filing Date: August 28, 2001	Group: 1645
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	

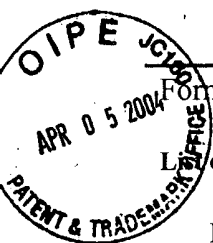
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	C41	Coffin, "Retroviridae and their replication," <i>In: Virology</i> , Fields <i>et al.</i> (eds.), New York: Raven Press, pp. 1437-1500, 1990.
	C42	Complaint Aventis Pharmaceuticals Products Inc. and Aventis Pharma, S.A., Plaintiffs, v. Introgen Therapeutics, Inc., Defendant. Civil Action No. 01-451 from the U.S. District Court for the District of Delaware, June 29, 2001.
	C43	Coupar <i>et al.</i> , "A general method for the construction of recombinant vaccinia virus expressing multiple foreign genes," <i>Gene</i> , 68:1-10, 1988.
	C44	Crooks <i>et al.</i> , "Purification and analysis of infectious virions and native non-structural antigens from cells infected with tick-borne encephalitis virus," <i>J. Chrom.</i> , 502:59-68, 1990.
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	C47	Edelman, "Cell adhesion and the molecular processes of morphogenesis," <i>Annu. Rev. Biochem.</i> , 54:135-169, 1985.
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	C50	Freshney, "Animal Cell Culture: a Practical Approach," Second Edition, Oxford/New York, IRL Press, Oxford University Press, 1992.
	C51	Frixen <i>et al.</i> , "E-cadherin-mediated cell-cell adhesion prevents invasiveness of human carcinoma cells," <i>J. Cell Biol.</i> , 113:173-185, 1991.
	C52	Garnier <i>et al.</i> , "Scale-up of the adenovirus expression system for the production of recombinant protein in human 293S cells," <i>Cytotechnol.</i> , 15:145-155, 1994.
	C53	Ghosh and Bachhawat, <i>In: Liver Diseases, Targeted Diagnosis and Therapy Using Specific Receptors and Ligands</i> , Wu G, Wu C (ed.), Marcel Dekker, New York, 87-104, 1991.
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U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	

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	C55	Gilbert, "Adaptation of cells to serum free culture for production of adenovirus vectors and recombinant proteins," <i>Williamsburg BioProcessing Conference</i> , Nov. 18-21, 1996.
	C56	Gopal, "Gene transfer method for transient gene expression, stable transfection, and cotransfection of suspension cell cultures," <i>Mol. Cell Biol.</i> , 5:1188-1190, 1985.
	C57	Graham and Prevec, "Manipulation of adenovirus vectors," <i>In: Methods in Molecular Biology: Gene Transfer and Expression Protocols 7</i> , (Murray, Ed.), Humana Press, Clifton, NJ, 109-128, 1991.
	C58	Graham and Van Der Eb, "A new technique for the assay of infectivity of human adenovirus 5 DNA," <i>Virology</i> , 52:456-467, 1973.
	C59	Graham <i>et al.</i> , "Characteristics of a human cell line transformed by DNA from human adenovirus type 5," <i>J. Gen. Virol.</i> , 36:59-72, 1977.
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	C66	Hermonat and Muzycska, "Use of adenoassociated virus as a mammalian DNA cloning vector: Transduction of neomycin resistance into mammalian tissue culture cells," <i>Proc. Nat'l Acad. Sci. USA</i> , 81:6466-6470, 1984.
	C67	Huyghe <i>et al.</i> , "Purification of a type 5 recombinant adenovirus encoding human p53 by column chromatography," <i>Hum. Gene Ther.</i> , 6:1403-1416, 1995.
	C68	Jones and Shenk, "Isolation of deletion and substitution mutants of adenovirus type 5," <i>Cell</i> , 13:181-188, 1978.

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Form PTO-1449 (modified)

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C69	Kamb <i>et al.</i> , "Analysis of the p16 gene (<i>CDKN2</i>) as a candidate for the chromosome 9p melanoma susceptibility locus," <i>Nature Genetics</i> , 8:22-26, 1994.
	C70	Kaneda <i>et al.</i> , "Increased expression of DNA cointroduced with nuclear protein in adult rat liver," <i>Science</i> , 243:375-378, 1989.
	C71	Klein <i>et al.</i> , "High-velocity microprojectiles for delivering nucleic acids into living cells," <i>Nature</i> , 327:70-73, 1987.
	C72	Kotani, "Serum-free production of adenoviral vectors for gene therapy," Williamsburg BioProcessing Conference, Nov. 18-21, 1996.
	C73	Kraft V., Tischer I, "Cell cycle-dependent multiplication of avian adenoviruses in chicken embryo fibroblasts," <i>Arch. Virol.</i> , 57: 243-54, 1978.
	C74	Larsson and Litwin, "The growth of polio virus in human diploid fibroblasts grown with cellulose microcarriers in suspension cultures," <i>Dev. Biol. Standard.</i> , 66:385-390, 1987.
	C75	Lentfer and Conde, "A rapid and inexpensive procedure for the purification of adenovirions," <i>Archives of Virology</i> , 56:189-193, 1978.
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	C77	Lin and Guidotti, "Cloning and expression of a cDNA coding for a rat liver plasma membrane ecto-ATpase," <i>J. Biol. Chem.</i> , 264:14408-14414, 1989.
	C78	Mann <i>et al.</i> , "Construction of a retrovirus packaging mutant and its use to produce helper-free defective retrovirus," <i>Cell</i> , 33:153-159, 1983.
	C79	Matsuura <i>et al.</i> , "Altered expression of e-cadherin in gastric cancer tissues and carcinomatous fluid," <i>Brit. J. Cancer</i> , 66:1122-1130, 1992.
	C80	McGrath <i>et al.</i> , "Retrovirus purification: method that conserves envelope glycoprotein and maximizes infectivity," <i>J. Virol.</i> , 25:923-927, 1978.
	C81	Mercer, "Cell cycle regulation and the p53 tumor suppressor protein," <i>Critic. Rev. Eukar. Gene Express.</i> 2:251-263, 1992.
	C82	Mizrahi, "Production of human interferons - an overview," <i>Proc. Biochem.</i> , (August):9-12, 1983.

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Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

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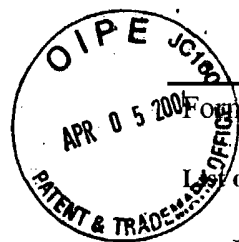
Exam. Init.	Ref. Des.	Citation
	C83	Montagnon, "Polio and rabies vaccines produced in continuous cell lines: a reality for vero cell line," <i>Develop. Biol. Standard.</i> , 70:27-47, 1989.
	C84	Morris <i>et al.</i> , "Serum-free production of adenoviral vectors for gene therapy," <i>Williamsburg BioProcessing Conference</i> , Nov. 18-21, 1996.
	C85	Nadeau <i>et al.</i> , <i>Biotechnology and Bioengineering</i> , 51:613-623, 1996.
	C86	Nicolas and Rubenstein, "Vectors: a survey of molecular cloning vectors and their uses," <i>In: Vectors: A Survey of Molecular Cloning Vectors and Their Uses</i> , Rodriguez and Denhardt, (eds.), Stoneham: Butterworth, 493-513, 1988.
	C87	Nicolau and Sene, "Liposome-mediated DNA transfer in eukaryotic cells," <i>Biochem. Biophys. Acta</i> , 721:185-190, 1982.
	C88	Nicolau <i>et al.</i> , "Liposomes as carriers for <i>in vivo</i> gene transfer and expression," <i>Methods Enzymol.</i> , 149:157-176, 1987.
	C89	Nilsson and Mosbach, "Immobilized animal cells," <i>Dev. Biol. Standard</i> , 66:183-193,
	C90	O'Neil and Balkovic, "Virus harvesting and affinity-based liquid chromatography," <i>Bio. Technol.</i> , 11:173-178, 1993.
	C91	Obrink, "C-CAM (cell-CAM 105) - a member of the growing immunoglobulin superfamily of cell adhesion proteins," <i>BioEssays</i> , 13:227-233, 1991.
	C92	Odin and Obrink, "Quantitative determination of the organ distribution of the cell adhesion molecule cell-CAM 105 by radioimmunoassay," <i>Exp. Cell Res.</i> , 171:1-15, 1987.
	C93	Okamoto <i>et al.</i> , "Mutations and altered expression of p16 ^{INK4} in human cancer," <i>Proc. Nat'l Acad. Sci. USA</i> , 91:11045-11049, 1994.
	C94	Orlow <i>et al.</i> , "Chromosome 9 allelic losses and microsatellite alterations in human bladder tumors," <i>Cancer Res.</i> , 54:2848-2851, 1994.
	C95	Paskind <i>et al.</i> , "Dependence of moloney murine leukemia virus production on cell growth," <i>Virology</i> , 67:242-248, 1975.
	C96	Payment <i>et al.</i> , <i>In: Biotechnology Current Progress</i> , ed. P.N. Cheremisinoff <i>et al.</i> , Technomic Publishing, 1991.

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U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	

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	C97	Perrin <i>et al.</i> , "An experimental rabies vaccine produced with a new BHK-21 suspension cell culture process: use of serum-free medium and perfusion-reactor system," <i>Vaccine</i> , 13(13): 1244-1250, 1995.
	C98	Petricciani, "Should continuous cell lines be used as substrates for biological products?" <i>Dev. Biol. Standard</i> , 66:3-12, 1985.
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Form PTO-1449 (modified)		Atty. Docket No. INRP:067USD1	Serial No. 09/441,410
Office of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Zheng Wu Shuyuan Zhang	
		Filing Date: August 28, 2001	Group: 1645
U.S. Patent Documents See Page 1	Foreign Patent Documents See Page 1	Other Art See Page 1	

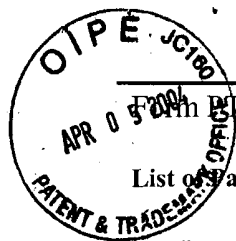
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	C122	Wong <i>et al.</i> , "Appearance of b-lactamase activity in animal cells upon liposome mediated gene transfer," <i>Gene</i> , 10:87-94, 1980.
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